5/46

<u> </u>	P705.633-011	
DART AEROSPACE LTD	Work Order:	24254
Description: Step Weldment Ass'y	Part Number:	D2563
Drawing: D2563 Rev. B	Qty:	10

PF 03.08-11

J.M. 51-11

Step	Location	Procedure	Bv	Date	Qty
1	DC	Issue Traveller Dug not required	A)	05.09.14	6
2	WA	Cut D2244 to 89.70" at 34° as per Dwg D2563  Batch: 320457	11	x 11 18	10
3	WA	Deburr ends	14	05.11.28	
4	QC5 WA	Inspect for foreign object per QSI 024	16	05 11 <b>26</b>	10
5	WA	Pick:         NA         ALuminum RolD         m/5 is 34 + m/8838           Qty         Part No.         Description         Batch           2         D2673-34         End Cap         B23 23 / 1           2         D2561         Lug Plate B 23470 / 102 / 1	3 ll	05.11.38	10
6	WA	Weld as per Dwg D2563 using DT 8343 3 234 35 234 25 234	16	05 11.28	10
74	WA	Grind 7 27 6 3	16	05-11-30	10
8.4	QC9 & 5	Inspect Welding and work to Step 7	M	05/12/05	10
9	FP	Powder Coat White (Ref. 4.3.5.1) per Dart QSI 005 4.3	DL	04/02/04	10
10	QC3	Inspect Powder Coat	M	06 07 M	10
11	FP	Wing Walk as per Dwg D2563 and QSI 005 4.4	a. m	06-026	u 10
12	QC3	Inspect Wing Walk	x 4		ŀ
13	FP	To KP for packing	14	06/102/pg Xdo2106	70

Rev	Date	Change	Revised By	Approved
Α	97.01.14	New Issue		7.ppioved
В	98.05.21	Updated end plate, added steps 8-10	KB	
С	99.02.10	Added Drawing Rev	DM	
D	99.05.06	Moved insp. Level 9, Re-format	DM	
E	00.05.08	Removed P/O for powder coating	EC	
F	00.07.20	Added inspection for QSI 024	EC	<del>                                     </del>
G	02.07.31	Re-format Location	RF R	

DELEASED

		102/20/			
80	tb	Chemical conversion const As per Qui ous 4.1	FF	05,12.08	10
& C	WA	weld aft end cap as per ong 2563	06		
884	QL9	Inspect weld	W	05.12.08	, 10
8 e	FP.	touch up and committe Aludine as per asious 4.1		0.764B	70

05.12.01

P10

PTO

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr 7)	Approval QC Inspector		
05-12-01	8	Dermant Change As Shewn				04/12/01	05-12-01		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
5475	0755	Description of NC		Corrective Action Section B	<del></del>	Verification	Approval	Approval		
DATE	STEP	Section A	Initial Action Description Sign & Design Mgr Date		Section C	Design Mgr	QC Inspector			
05.11.28	18.5	D2561 B23405 found with a doep mark at hole location.	Bases	Scrap destroy 0256/2	15-11-28	os-11-28	D OFFER	25.11.78		
								24.		

Part No:	PAR #:	Fault Category:	NCR:	Yes No DQA:	Date: 06/02/07
NOTE: Date & initial all entries				QA: N/C Closed:	Date:

#### Job Costing Report

Dårt	Aerospace	Ltd.
Hawke	esburv	

Nov 08, 2005 11:12 am

awkesbury 11:1:

Work Order No : 0024254

Project Name : \*D205-633-011 Department Code:
Project For : WK546 Burden Flags : NNNNNNN

Work Order Type : Main WO Status : Open

Main WO Number : Invoice State : Not Invoiced

House Part Number: \*D205-633-011 Invoice Date:

Description : Heli-Access-Step Invoice Number :

Manufactured: Yes Invoice Amount: 0.00

Amount Req'd: 10
Amount Done: 0 Order Entry No:

Start Date : 09-13-05 OE Value : 0.00

Est Finish Date : 11-17-05

Act Finish Date : Est Margin : 0.000% Drawings Reqd : No Actual Margin : 0.000%

Ok for Approval :

Approval Rec'd : \$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	2.25	100.00		
Production Cost	:	0.00	36.16	100.00	0.00	36.16
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
		========	========	======		
Burden	:	0.00	0.00	0.00		
		========	=======	======		
Total Cost	:	0.00	36.16	100.00		
Margin	:	0.000	0.000			
Selling Cost	:	0.00	36.16			. ^
						2/1/b

Estimated Actual Labour Hrs/Amount Done : 0.00 0.00 Profits/(Loss) : 0.00 ( -36.16)

MR 0/B

: 205 STEP(STANDARD HEIGHT)

Date: User: Sunday, 11/6/2005 2:02:31 PM

Linda Lacelle

#### **Process Sheet**

Customer **Job Number**  : CU-DAR001 Dart Helicopters Services

: 24254 : 10180

**Estimate Number** P.O. Number

This Issue : 11/6/2005 Prsht Rev.

: NC

: // : 24253

S.O. No. :

Type

: LARGE FAB ASSY

Part Number

**Drawing Name** 

: D205633011

**Drawing Number** 

: N/A

**Project Number Drawing Revision** 

: N/A

Material **Due Date** 

: 11/30/2005

Qty:

10 Um:

Each

Checked & Approved By

Comment

First Issue

Written By

**Previous Run** 

: Est Rev:F 02.07.11 Reformat; Removed D3010 RF

**Additional Product** 

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0 24254A

STEP WELDMENT



Comment: Sub-Component STEP WELDMENT

2.0

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile & type labels per PPP205-633-011 CHG001

3.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

	FICK FACKING MIL		
4.0	D2021101	Eyebolt	
5.0	D2022101	Spacer	
6.0	D2022103	Spacer	
7.0	D2562001	Strut	
8.0	D2565101	Strut	
9.0	D2565103	Strut	
10.0	D2565105	Strut	
11.0	D2565107	Strut	
12.0	D2565109	Strut	
13.0	D2565111	Strut	
14.0	AN45A	Bolt	
15.0	AN46A	Bolt	
			$\neg$

Date:

Sunday, 11/6/2005 2:02:32 PM

User: Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 205 STEP(STANDARD HEIGHT)

Job Number: 24254

Part Number: D205633011

Job Number:



Seq. #:	Machine Or Operation:	Description:	
16.0	AN47A	Bolt	
17.0	AN414A	Bolt	
18.0	AN56A	Bolt	
19.0	AN514A	Bolt	
20.0	AN960JD416	Washer	
21.0	AN960JD516	Washer	
22.0	MS21042L4	Nut	
23.0	MS21042L5	Nut	
24.0	D2563	Step Weldment Assembly	
25.0	QC4	INSPECT 100% KITS FOR COMPLETENESS	





Comment: INSPECT 100% KITS FOR COMPLETENESS

26.0

PACKAGING 1

PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D205-633-011

Location:

27.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



Date

Sunday, 11/6/2005 2:02:39 PM

User:

Linda Lacelle

#### **Process Sheet**

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 24254A

**Estimate Number** 

: 10176

Prsht Rev.

First Issue

P.O. Number This Issue

: 11/6/2005

: NC

: // **Previous Run** 

: 24253A

: LARGE FAB ASSY

Type

S.O. No. :

**Part Number Drawing Number** 

**Drawing Name** 

: D2563

: STEP WELDMENT

: D2563 REV B

**Project Number Drawing Revision** 

; B Material

**Due Date** : 11/30/2005

Qty:

10 Um:

Each

Checked & Approved By

Comment

Written By

: Est Rev:G 02.07.31 Re-format Location RF

**Additional Product** 

Job Number:



Seq. #:	Machine Or Operation:	Description :
1.0	D2244116	Step Extrusion
2.0	D267334	End Plate
3.0	D2561	Lug Plate

4.0 D2564 5.0 LARGE FAB 1

LARGE FABRICATION RESOURCE 1

Mounting Angle



Comment: LARGE FABRICATION RESOURCE 1

1-Cut D2244 to 89.70" at 34° as per Dwg D2563

2-Deburr ends

3-Inspect for foreign object per QSI 024

4-Weld as per Dwg D2563 using DT 8343

5-Grind

6.0 QC5/9

7.0

WELD INSPECTION





**Comment: WELD INSPECTION** 

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

**Date:** Sunday, 11/6/2005 2:02:39 PM

User: Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services Drawing Name: STEP WELDMENT

Job Number: 24254A

Part Number: D2563

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

8.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

9.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Wing Walk as per Dwg D2563 and QSI 005 4.4

10.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

11.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



5/46

DART AEROSPACE LTD	Work Order:	24254
Description: 205 Step (Standard Height)	Part Number:	D205-633-011
Dwg:	Qty:	10

Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Travellers for:   Batch	*	05,09.14	10
2	DC	Photocopy blue file and create labels per PPP D205-633-011 CHG001 WK 444			
3	PK	Pick: Packing Kit  Oty Part Number Description Eyebolt & 2 3483	23390 1273		
4	PK	Pick:		040200	,0
		QtyPart NumberDescriptionBatch1D2563Weldment Ass'yB 24254	cL	06/02/06	,0
5	QC4	Inspect 100% Kit for Completeness	a P	06/02/04	
6	PK	Identify and pack for shipping as per PPP D205-633-011	1	6/2/6	10
7 ,	AC	Cost / part	Suc	06-02.08	16
8	DC	Close work Order and Ensure Travellers Attached Inspect Level 21 Travellers: D205-633-011 D2563		odajok	10

Rev	Date	Change	Revised By	Approved
Α	97.03.05			
В	99.02.18	Re-format	DM	
С	00.03.27	Add reference to PPP	EC	
D	01.04.03	Added D3010 to pick list	EC	0
E	01.04.09	Incorporated D2563 step	EC	1
F	02.07.11	Reformat; Removed D3010 from Step 3	RF R	+ <del>\( \( \)</del>



# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	PROCEDURE CHANGE By			Qty	Approval Mfg / Design Mgr	Approval QC Inspector			
								•			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	A	Annessal				
DATE	E STEP	Section A	Initial Design Mgr	Action Description  Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector			
					ļ						
				•							
					,						

Part No:	PAR #:	Fault Category:	NCR:	Yes	No	DQA:	Date:
NOTE: Date & initial all entries				QA: I	N/C C	losed:	Date:

### Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Sep 13, 2005 03:34 pm

Work Order No : 0024254

Project Name : \*D205-633-011
Project For : WK546
Work Order Type : Main
Main WO Number : Department Code:
Burden Flags : NNNNNNN
WO Status : Open

Invoice State : Not Invoiced
Invoice Date :
Invoice Number :
Invoice Amount : 0.00

House Part Number: \*D205-633-011

Description : Heli-Access-Step Manufactured : Yes

Amount Req'd: 10
Amount Done: 0
Start Date: 09-13-05

Order Entry No : OE Value : 0.00

Est Finish Date : 11-17-05

Est Mark Up : 0.000% Actual Mark Up : 0.000% Act Finish Date : Drawings Reqd : No

Ok for Approval :

\$0 Posted to Finished Goods Approval Rec'd :

:		Estimated	Actual	Var. %	Posted	To Post
	===		=========	========	=========	=========
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	. 0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	<b>*</b> 0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
		========	========	======		
Burden	:	0.00	0.00	0.00		
		========	=======	======		
Total Cost	:	0.00	0.00	0.00		
Mark up	:	0.000	0.000			
Selling Cost	:	0.00	0.00			

Estimated Actual Labour Hrs/Amount Done : 0.00 Profits/(Loss) : 0.00 0.00 0.00